

CLAIMS

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1. An electroluminescent device comprising:
a first electrode;
a second electrode; and
a light-emissive region of electroluminescent organic material between the electrodes;
and wherein
the first electrode comprises a first material capable of injecting positive charge carriers into the light-emissive region and a second material capable of injecting negative charge carriers into the light-emissive region; and
the second electrode comprises a third material capable of injecting positive charge carriers into the light-emissive region and a fourth material capable of injecting negative charge carriers into the light-emissive region.
2. An electroluminescent device as claimed in claim 1, wherein the first electrode has a surface facing the region of electroluminescent material and the first material and the second material are present at that surface.
3. An electroluminescent device as claimed in claim 1 or 2, wherein the second electrode has a surface facing the region of electroluminescent material and the third material and the fourth material are present at that surface.
4. An electroluminescent device as claimed in any preceding claim, wherein the first electrode is formed by co-deposition of the first and second materials.
5. An electroluminescent device as claimed in any preceding claim, wherein the second electrode is formed by co-deposition of the third and fourth materials.
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6. An electroluminescent device as claimed in any preceding claim, wherein at least one of the first and second electrodes is light-transmissive.

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7. An electroluminescent device as claimed in any preceding claim wherein the first and/or third material is gold or platinum.
8. An electroluminescent device as claimed in any preceding claim wherein the second and/or fourth material is an alkali metal or and alkali earth metal or an oxide or fluoride of an alkali metal or an alkali earth metal.
9. An electroluminescent material as claimed in any preceding claim, wherein one or both of the first and third materials has a work function above 4.0eV.
10. An electroluminescent material as claimed in any preceding claim, wherein one or both of the second and fourth materials has a work function below 3.5eV.
11. An electroluminescent device as claimed in any preceding claim, wherein the first and third materials are the same.
12. An electroluminescent device as claimed in any preceding claim, wherein the second and fourth materials are the same.
13. An electroluminescent device as claimed in any preceding claim, comprising a drive unit electrically connected to the first and second electrodes for applying an alternating current drive scheme to the electrodes.
14. An electroluminescent device as claimed in any preceding claim, comprising a charge transport layer of an electrically conductive material between at least one of the electrodes and the light-emissive region.
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15. An electroluminescent device substantially as herein described with reference to figures 3 to 5 of the accompanying drawings.
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16. A method of driving an electroluminescent device as claimed in any preceding claim, comprising applying an alternating current drive scheme to the electrodes.
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17. An electroluminescent device substantially as herein described with reference to figures 3 to 5 of the accompanying drawings.

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